

41PR-7793 (GBN-0213)

*In the Claims:*

1. (Currently Amended) ~~A~~ The circuit breaker for an electrical circuit of claim 2 further comprising:

~~an operating mechanism for interrupting current in the electrical circuit when operated;~~

~~an electronic trip unit including a microcomputer which monitors the current in the electrical circuit and generates a trip by automatically operating the operating mechanism to interrupt the current in the electrical circuit when the current exceeds a selectable value; and,~~

~~a rating plug having means establishing the selectable value of the current at which the electronic trip unit trips the operating mechanism, and a non-volatile memory storing frame rating and current rating of the circuit breaker; and,~~

~~an error detection program within the microcomputer, wherein the error detection program rejects current ratings sent to the electronic trip unit that are greater than the frame rating of the circuit breaker.~~

2. (Previously Presented) A circuit breaker for an electrical circuit comprising:

an operating mechanism for interrupting current in the electrical circuit when operated;

an electronic trip unit including a microcomputer which monitors the current in the electrical circuit and generates a trip by automatically operating the operating mechanism to interrupt the current in the electrical circuit when the current exceeds a selectable value;

a rating plug having means establishing the selectable value of the current at which the electronic trip unit trips the operating mechanism, and a non-volatile memory storing frame rating and current rating of the circuit breaker, wherein the current rating of the circuit breaker is changeable via an Internet connection.

3. (Previously Presented) A circuit breaker for an electrical circuit comprising:

an operating mechanism for interrupting current in the electrical circuit when operated;

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an electronic trip unit including a microcomputer which monitors the current in the electrical circuit and generates a trip by automatically operating the operating mechanism to interrupt the current in the electrical circuit when the current exceeds a selectable value;

a rating plug having means establishing the selectable value of the current at which the electronic trip unit trips the operating mechanism, and a non-volatile memory storing frame rating and current rating of the circuit breaker; and,

an Internet connection extending from the microcomputer, wherein the current rating of the circuit breaker may be changed via the Internet connection.

4. (Previously Presented) The circuit breaker of claim 3 further comprising an error detection program within the microcomputer, wherein the error detection program rejects current ratings greater than the frame rating.

5. (Currently Amended) The circuit breaker of claim 4 further comprising a display for displaying the current rating.

Claims 6-15. (Canceled)

16. (Previously Presented) A plug-in digital rating plug for an electronic trip unit of a circuit breaker, the rating plug comprising:

a housing;

a connector for connecting the rating plug to the electronic trip unit; and,

a non-volatile memory storing current rating of the circuit breaker, wherein information regarding current rating is sent by the rating plug to the electronic trip unit in digital format only; and,

a bar code on the housing for indicating the current rating.

17. (Canceled)

18. (Canceled)

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19. (Original) The rating plug of claim 16 wherein the connector includes a plurality of connection pins.

20. (Original) The rating plug of claim 19 further comprising a plurality of leads connecting the plurality of connection pins to the non-volatile memory.

21. (Original) The rating plug of claim 16 wherein the housing is a plastic case.

22. (Previously presented) A plug-in digital rating plug for an electronic trip unit of a circuit breaker, the rating plug comprising:

a plastic housing;

a connector for connecting the rating plug to the electronic trip unit; and,

a non-volatile memory storing current rating of the circuit breaker, wherein information regarding current rating is sent by the rating plug to the electronic trip unit in digital format only, and wherein the rating plug contains no resistors relating to current rating or frame rating of the circuit breaker.

23. (Previously Presented) A circuit breaker for an electrical circuit comprising:  
an electronic trip unit including a microcomputer;

a removable digital rating plug having a non-volatile memory storing current rating of the circuit breaker;

a connector for connecting the rating plug to the electronic trip unit;

wherein the current rating of the circuit breaker is determined exclusively by the non-volatile memory of the rating plug, and wherein the current rating of the circuit breaker is changeable via an Internet connection.

24. (Original) The circuit breaker of claim 23 wherein the rating plug includes a plastic housing.

25. (Original) The circuit breaker of claim 23 wherein the rating plug further comprises

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a label indicating the current rating.

26. (Original) The circuit breaker of claim 25 wherein the label includes a bar code.

Claims 27-36. (Canceled)

37. (Previously Presented) A circuit breaker for an electrical circuit comprising:  
an operating mechanism for interrupting current in the electrical circuit when operated;  
an electronic trip unit including a microcomputer which monitors the current in the electrical circuit and generates a trip by automatically operating the operating mechanism to interrupt the current in the electrical current when the current exceeds a selectable value;  
a non-volatile memory storing current rating of the circuit breaker; and,  
an Internet connection extending from the microcomputer, wherein the current rating of the circuit breaker may be changed via the Internet connection.

38. (Previously Presented) The circuit breaker of claim 37 further comprising an error detection program within the microcomputer, wherein the error detection program rejects current ratings greater than a frame rating of the circuit breaker.

39. (Previously Presented) The circuit breaker of claim 37 further comprising a display for displaying the current rating.

40. (Canceled)

41. (Currently Amended) A circuit breaker for an electrical circuit comprising:  
an operating mechanism for interrupting current in the electrical circuit when operated;  
an electronic trip unit including a microcomputer which monitors the current in the electrical circuit and generates a trip by operating the operating mechanism to interrupt the current in the electrical current when the current exceeds a selectable value, the electronic trip unit further establishing the selectable value of the current at which the electronic trip unit trips

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the operating mechanism;

a non-volatile memory for storing current rating of the circuit breaker; and,  
an error detection program within the microcomputer, wherein the error detection  
program rejects current ratings sent to the electronic trip unit that are greater than a frame rating  
of the circuit breaker; and,

wherein the current rating of the circuit breaker is changeable via an Internet connection.